# IXH DRY PUMPS FOR HARSH PROCESSES

Giving you a clear edge

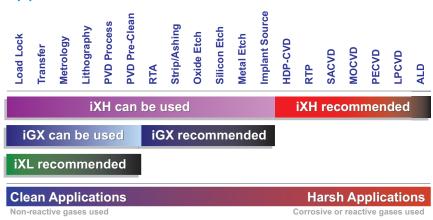


**PRODUCT DATASHEET** 

The iXH dry pump range is an evolution of our market leading iH products and sets new standards for harsh process capability, reliability and lower cost of ownership.

With a modular design, iXH pumps meet today's process requirements and have road-mapped responses to emerging application challenges in high-k, low-k, SACVD, LPCVD, ALD, TCO, GaN and EPI.

#### **Applications**





#### Features and benefits

More process capability

- Greatly increased powder handling capability and innovative Gas Buster<sup>™</sup> (1) technology
- Wide temperature range allows optimisation of pump to minimise by-product accumulation from condensation and plating
- Innovative pump seal technology to lengthen process life and reduce leakage risks (1)

Reduced cost of ownership

- 10% less energy consumption than the previous model
- SEMI® E54 compatible and Green Mode capable
- Longer overhaul intervals and less unscheduled down time

Greatly increased hydrogen pumping speed for advanced EPI and solar processes

High capacity dry pumps and boosters give an expanded process window to enhance yields

Complies with key international standards including UL, CE and S2

Smaller footprint and lower height for ease of fitting in any fab



<sup>&</sup>lt;sup>1</sup> Patent applied for

## Technical data

Product		iXH 100	iXH 200H	iXH 610	iXH 1210	iXH 1210H	iXH 1210HT	iXH 1220H
Dry pump size	m³/h	100	200	100	100	100	100	200
Booster size	m³/h			600	1200	1200	1200	1200
Peak Speed	m³/h	100	215	665	1025	1065	1000	1250
Ultimate Vac (Typical)	Torr	1.5x10 <sup>-2</sup>	7.5x10 <sup>-3</sup>	3.7x10 <sup>-3</sup>	3.7x10 <sup>-3</sup>	3.7x10 <sup>-3</sup>	7.5x10 <sup>-3</sup>	3.7x10 <sup>-3</sup>
System Power at Ult.(2)	kW	2.1	3.7	2.6	3.2	3.9	3.9	4.8
Inlet Connection	ISO	63	63	100	100	100	100	100
Outlet Connection	NW	40	40	40	40	40	40	40
Typical Water Flow (1)	I/m	2.0	2.7	3.0	4.0	4.2	4.2	4.7
Purge Flow Range	slm	28/44*	28/44*	22/44*	22/44*	22/44*/60	22/44*/60	34*/96/122
Weight	kg	260	287	355	430	413	413	457

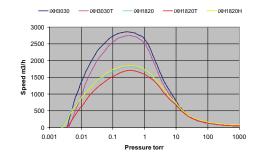
Product		iXH						
		1220HTX	1820T	1820	1820H	3030TX	3030 <sup>(2)</sup>	3030T
Dry pump size	m³/h	200	200	200	200	300	300	300
Booster size	m³/h	1200	1800	1800	1800	3000	3000	3000
Peak Speed	m³/h	1250	1700	1820	1825	2750	2900	2750
Ultimate Vac. (Typical)	Torr	3.7x10 <sup>-3</sup>						
System Power at Ult.(2)	kW	4.8	4.0	3.9	4.8	5.7 (4)	5.7	5.7
Inlet Connection	ISO	100	160	160	160	160	160	160
Outlet Connection	NW	40	40	40	40	40	40	40
Typical Water Flow (1)	l/m	4.7	3.5	4.2	4.7	4.5	5.0	4.5
Purge Flow Range	slm	34*/96/122	34/96*/122	28/44*	34*/96/122	34*/96/122	28/44*	34/96*/122
Weight	kg		473	471	487	625	619	624

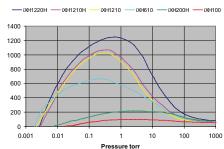
#### **Dimensions**

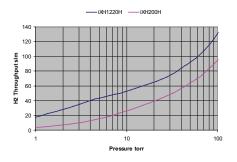


Dimensions (mm)	L	W	Н
iXH100	784	390	526
iXH200H	901	390	526
iXH610, 1210, 1210H,	784	390	780
1210HT			
iXH1220H, 1820, 1820T,	901	390	780
1820H, 1220HTX			
iXH3030, 3030T, 3030TX	915	517	966

### Performance curves







Chemtech Scientific provides access to this content as a courtesy. We do not own the content contained in this document. All rights and credit go directly to its rightful owners. Call us at: 484-424-9415 hemtech Scientific

<sup>\*</sup> Factory default setting
(1) Water consumption varies with pump operating temperature; figures at 110 °C
(2) Average power at 700 T exhaust pressure
(3) Booster heaters add 1.4W when switched on
(4) Booster heaters add 1.5 kW when switched on